

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 11C-25
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8406.0usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8406.0usft
Site:	S25-T6S-R97W (E25)	North Reference:	True
Well:	PUCKETT 11C-25	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Project	Garfield County, CO (UTM 12N)		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	S25-T6S-R97W (E25)				
Site Position:		Northing:	14,354,735.00 usft	Latitude:	39.495199
From:	Map	Easting:	2,437,287.30 usft	Longitude:	-108.175536
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	1.80 °

Well	PUCKETT 11C-25					
Well Position	+N/-S	0.0 usft	Northing:	14,354,733.10 usft	Latitude:	39.495194
	+E/-W	0.0 usft	Easting:	2,437,280.00 usft	Longitude:	-108.175562
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	8,376.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	HDGM	1/7/2016	(°) 9.82	(°) 65.85	(nT) 51,889

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	349.30

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
723.5	15.71	349.30	717.0	70.1	-13.2	3.00	3.00	0.00	349.30	
6,541.8	15.71	349.30	6,318.0	1,617.7	-305.6	0.00	0.00	0.00	0.00	
7,065.3	0.00	0.00	6,835.0	1,687.7	-318.8	3.00	-3.00	0.00	180.00	
9,278.3	0.00	0.00	9,048.0	1,687.7	-318.8	0.00	0.00	0.00	0.00	PUCKETT 11C-25 PE

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Site:	S25-T6S-R97W (E25)	North Reference:	True
Well:	PUCKETT 11C-25	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	Start Build 3.00
300.0	3.00	349.30	300.0	2.6	-0.5	2.6	3.00	3.00	
400.0	6.00	349.30	399.6	10.3	-1.9	10.5	3.00	3.00	
500.0	9.00	349.30	498.8	23.1	-4.4	23.5	3.00	3.00	
600.0	12.00	349.30	597.1	41.0	-7.7	41.7	3.00	3.00	
700.0	15.00	349.30	694.3	63.9	-12.1	65.1	3.00	3.00	
723.5	15.71	349.30	717.0	70.1	-13.2	71.3	3.00	3.00	Start 5818.2 hold at 723.5 MD
800.0	15.71	349.30	790.6	90.4	-17.1	92.0	0.00	0.00	
900.0	15.71	349.30	886.9	117.0	-22.1	119.1	0.00	0.00	
1,000.0	15.71	349.30	983.1	143.6	-27.1	146.1	0.00	0.00	
1,100.0	15.71	349.30	1,079.4	170.2	-32.2	173.2	0.00	0.00	
1,200.0	15.71	349.30	1,175.7	196.8	-37.2	200.3	0.00	0.00	
1,300.0	15.71	349.30	1,271.9	223.4	-42.2	227.4	0.00	0.00	
1,400.0	15.71	349.30	1,368.2	250.0	-47.2	254.4	0.00	0.00	
1,500.0	15.71	349.30	1,464.5	276.6	-52.3	281.5	0.00	0.00	
1,600.0	15.71	349.30	1,560.7	303.2	-57.3	308.6	0.00	0.00	
1,700.0	15.71	349.30	1,657.0	329.8	-62.3	335.6	0.00	0.00	
1,800.0	15.71	349.30	1,753.3	356.4	-67.3	362.7	0.00	0.00	
1,900.0	15.71	349.30	1,849.5	383.0	-72.4	389.8	0.00	0.00	
2,000.0	15.71	349.30	1,945.8	409.6	-77.4	416.8	0.00	0.00	
2,100.0	15.71	349.30	2,042.1	436.2	-82.4	443.9	0.00	0.00	
2,200.0	15.71	349.30	2,138.3	462.8	-87.4	471.0	0.00	0.00	
2,300.0	15.71	349.30	2,234.6	489.4	-92.4	498.0	0.00	0.00	
2,400.0	15.71	349.30	2,330.9	516.0	-97.5	525.1	0.00	0.00	
2,500.0	15.71	349.30	2,427.1	542.6	-102.5	552.2	0.00	0.00	
2,600.0	15.71	349.30	2,523.4	569.2	-107.5	579.3	0.00	0.00	
2,700.0	15.71	349.30	2,619.7	595.8	-112.5	606.3	0.00	0.00	
2,800.0	15.71	349.30	2,715.9	622.4	-117.6	633.4	0.00	0.00	
2,900.0	15.71	349.30	2,812.2	649.0	-122.6	660.5	0.00	0.00	
3,000.0	15.71	349.30	2,908.5	675.6	-127.6	687.5	0.00	0.00	
3,100.0	15.71	349.30	3,004.7	702.2	-132.6	714.6	0.00	0.00	
3,200.0	15.71	349.30	3,101.0	728.8	-137.7	741.7	0.00	0.00	
3,300.0	15.71	349.30	3,197.3	755.4	-142.7	768.7	0.00	0.00	
3,400.0	15.71	349.30	3,293.5	782.0	-147.7	795.8	0.00	0.00	
3,500.0	15.71	349.30	3,389.8	808.6	-152.7	822.9	0.00	0.00	
3,600.0	15.71	349.30	3,486.1	835.2	-157.8	850.0	0.00	0.00	
3,700.0	15.71	349.30	3,582.3	861.8	-162.8	877.0	0.00	0.00	
3,800.0	15.71	349.30	3,678.6	888.4	-167.8	904.1	0.00	0.00	
3,900.0	15.71	349.30	3,774.9	915.0	-172.8	931.2	0.00	0.00	
4,000.0	15.71	349.30	3,871.1	941.6	-177.9	958.2	0.00	0.00	
4,100.0	15.71	349.30	3,967.4	968.2	-182.9	985.3	0.00	0.00	
4,200.0	15.71	349.30	4,063.7	994.8	-187.9	1,012.4	0.00	0.00	
4,300.0	15.71	349.30	4,159.9	1,021.4	-192.9	1,039.4	0.00	0.00	
4,400.0	15.71	349.30	4,256.2	1,048.0	-198.0	1,066.5	0.00	0.00	
4,500.0	15.71	349.30	4,352.5	1,074.6	-203.0	1,093.6	0.00	0.00	
4,600.0	15.71	349.30	4,448.7	1,101.2	-208.0	1,120.6	0.00	0.00	
4,700.0	15.71	349.30	4,545.0	1,127.8	-213.0	1,147.7	0.00	0.00	
4,800.0	15.71	349.30	4,641.3	1,154.4	-218.1	1,174.8	0.00	0.00	
4,900.0	15.71	349.30	4,737.5	1,181.0	-223.1	1,201.9	0.00	0.00	
5,000.0	15.71	349.30	4,833.8	1,207.6	-228.1	1,228.9	0.00	0.00	

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Site:	S25-T6S-R97W (E25)	North Reference:	True
Well:	PUCKETT 11C-25	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
5,100.0	15.71	349.30	4,930.1	1,234.2	-233.1	1,256.0	0.00	0.00	
5,200.0	15.71	349.30	5,026.3	1,260.8	-238.2	1,283.1	0.00	0.00	
5,300.0	15.71	349.30	5,122.6	1,287.4	-243.2	1,310.1	0.00	0.00	
5,400.0	15.71	349.30	5,218.9	1,314.0	-248.2	1,337.2	0.00	0.00	
5,500.0	15.71	349.30	5,315.1	1,340.6	-253.2	1,364.3	0.00	0.00	
5,600.0	15.71	349.30	5,411.4	1,367.2	-258.3	1,391.3	0.00	0.00	
5,700.0	15.71	349.30	5,507.7	1,393.8	-263.3	1,418.4	0.00	0.00	
5,800.0	15.71	349.30	5,603.9	1,420.4	-268.3	1,445.5	0.00	0.00	
5,900.0	15.71	349.30	5,700.2	1,447.0	-273.3	1,472.6	0.00	0.00	
6,000.0	15.71	349.30	5,796.5	1,473.6	-278.4	1,499.6	0.00	0.00	
6,100.0	15.71	349.30	5,892.7	1,500.2	-283.4	1,526.7	0.00	0.00	
6,200.0	15.71	349.30	5,989.0	1,526.8	-288.4	1,553.8	0.00	0.00	
6,215.6	15.71	349.30	6,004.0	1,530.9	-289.2	1,558.0	0.00	0.00	OHIO_CREEK
6,300.0	15.71	349.30	6,085.3	1,553.4	-293.4	1,580.8	0.00	0.00	
6,400.0	15.71	349.30	6,181.5	1,580.0	-298.5	1,607.9	0.00	0.00	
6,465.9	15.71	349.30	6,245.0	1,597.5	-301.8	1,625.7	0.00	0.00	WILLIAMS_FORK
6,500.0	15.71	349.30	6,277.8	1,606.6	-303.5	1,635.0	0.00	0.00	
6,541.8	15.71	349.30	6,318.0	1,617.7	-305.6	1,646.3	0.00	0.00	Start Drop -3.00
6,600.0	13.96	349.30	6,374.3	1,632.3	-308.4	1,661.2	3.00	-3.00	
6,700.0	10.96	349.30	6,471.9	1,653.5	-312.4	1,682.8	3.00	-3.00	
6,800.0	7.96	349.30	6,570.6	1,669.7	-315.4	1,699.2	3.00	-3.00	
6,900.0	4.96	349.30	6,669.9	1,680.7	-317.5	1,710.4	3.00	-3.00	
7,000.0	1.96	349.30	6,769.7	1,686.6	-318.6	1,716.5	3.00	-3.00	
7,065.3	0.00	0.00	6,835.0	1,687.7	-318.8	1,717.6	3.00	-3.00	Start 2213.0 hold at 7065.3 MD
7,100.0	0.00	0.00	6,869.7	1,687.7	-318.8	1,717.6	0.00	0.00	
7,165.3	0.00	0.00	6,935.0	1,687.7	-318.8	1,717.6	0.00	0.00	TOP_GAS
7,200.0	0.00	0.00	6,969.7	1,687.7	-318.8	1,717.6	0.00	0.00	
7,300.0	0.00	0.00	7,069.7	1,687.7	-318.8	1,717.6	0.00	0.00	
7,400.0	0.00	0.00	7,169.7	1,687.7	-318.8	1,717.6	0.00	0.00	
7,500.0	0.00	0.00	7,269.7	1,687.7	-318.8	1,717.6	0.00	0.00	
7,600.0	0.00	0.00	7,369.7	1,687.7	-318.8	1,717.6	0.00	0.00	
7,700.0	0.00	0.00	7,469.7	1,687.7	-318.8	1,717.6	0.00	0.00	
7,800.0	0.00	0.00	7,569.7	1,687.7	-318.8	1,717.6	0.00	0.00	
7,900.0	0.00	0.00	7,669.7	1,687.7	-318.8	1,717.6	0.00	0.00	
8,000.0	0.00	0.00	7,769.7	1,687.7	-318.8	1,717.6	0.00	0.00	
8,100.0	0.00	0.00	7,869.7	1,687.7	-318.8	1,717.6	0.00	0.00	
8,200.0	0.00	0.00	7,969.7	1,687.7	-318.8	1,717.6	0.00	0.00	
8,300.0	0.00	0.00	8,069.7	1,687.7	-318.8	1,717.6	0.00	0.00	
8,400.0	0.00	0.00	8,169.7	1,687.7	-318.8	1,717.6	0.00	0.00	
8,500.0	0.00	0.00	8,269.7	1,687.7	-318.8	1,717.6	0.00	0.00	
8,600.0	0.00	0.00	8,369.7	1,687.7	-318.8	1,717.6	0.00	0.00	
8,700.0	0.00	0.00	8,469.7	1,687.7	-318.8	1,717.6	0.00	0.00	
8,800.0	0.00	0.00	8,569.7	1,687.7	-318.8	1,717.6	0.00	0.00	
8,858.3	0.00	0.00	8,628.0	1,687.7	-318.8	1,717.6	0.00	0.00	CAMEO
8,900.0	0.00	0.00	8,669.7	1,687.7	-318.8	1,717.6	0.00	0.00	
9,000.0	0.00	0.00	8,769.7	1,687.7	-318.8	1,717.6	0.00	0.00	
9,100.0	0.00	0.00	8,869.7	1,687.7	-318.8	1,717.6	0.00	0.00	
9,128.3	0.00	0.00	8,898.0	1,687.7	-318.8	1,717.6	0.00	0.00	ROLLINS
9,200.0	0.00	0.00	8,969.7	1,687.7	-318.8	1,717.6	0.00	0.00	
9,278.3	0.00	0.00	9,048.0	1,687.7	-318.8	1,717.6	0.00	0.00	TD at 9278.3 - TD

Planning Report

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Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8406.0usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8406.0usft
Site:	S25-T6S-R97W (E25)	North Reference:	True
Well:	PUCKETT 11C-25	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PUCKETT 11C-25 PBHL - hit/miss target - Shape - plan hits target center - Circle (radius 50.0)	0.00	0.00	9,048.0	1,687.7	-318.8	14,356,410.00	2,436,908.40	39.499826	-108.176691

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
6,215.6	6,004.0	OHIO_CREEK				
6,465.9	6,245.0	WILLIAMS_FORK				
7,165.3	6,935.0	TOP_GAS				
8,858.3	8,628.0	CAMEO				
9,128.3	8,898.0	ROLLINS				
9,278.3	9,048.0	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
200.0	200.0	0.0	0.0	Start Build 3.00	
723.5	717.0	70.1	-13.2	Start 5818.2 hold at 723.5 MD	
6,541.8	6,318.0	1,617.7	-305.6	Start Drop -3.00	
7,065.3	6,835.0	1,687.7	-318.8	Start 2213.0 hold at 7065.3 MD	
9,278.3	9,048.0	1,687.7	-318.8	TD at 9278.3	